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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

11/06/2003

Woodcock Washburn Kurtz Mackiewicz & Norris LLP One Liberty Place 46th Floor Philadelphia, PA 19103 EXAMINER
RIOS CUEVAS, ROBERTO JOSE
ART UNIT PAPER NUMBER

DATE MAILED: 11/06/2003

2836

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/690,183 10/17/2000 Tadayoshi Kachi TALW-0152 1660

TITLE OF INVENTION: POWER CONVERTING METHOD AND APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	02/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

11/06/2003

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further correspondence including the Patent, advance orders and notifica	ition of maintenance fees will be mailed to the current correspondence address a
indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a ne	ew correspondence address; and/or (b) indicating a separate "FEE ADDRESS" to
maintenance fee notifications.	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)	Note: A certificate of mailing can only be used for domestic mailings of th

Woodcock Washburn Kurtz Mackiewicz & Norris LLP

One Liberty Place 46th Floor Philadelphia, PA 19103

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Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	to the OSI 10, on the date indicated below.	шылы
(Depositor's name		
(Signatur		
(Date		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,183	10/17/2000	Tadayoshi Kachi	TALW-0152	1660

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nonprovisional	NO	\$1330	\$0	\$1330	02/06/2004
EXAN	MINER	ART UNIT	CLASS-SUBCLASS]	
RIOS CUEVAS, ROBERTO JOSE 2836			307-075000	_	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			2. For printing on the patent front page names of up to 3 registered patent a agents OR, alternatively, (2) the name firm (having as a member a registered agent) and the names of up to 2 regis	of a single attorney or 2	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorneys or agents. If no name is liste will be printed.		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category	or categories (will not be printed on the patent);	☐ individual	□ corporation or other private group of	entity 🚨 government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.		
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.		
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, Deposit Account Number (enclose an extra copy of this form).			
Director for Patents is requested to apply the Is	ssue Fee and Publication Fee (if any) or to re-apply	any previously p	paid issue fee to the application identifie	d above.	
(Authorized Signature)	(Date)				
NOTE; The Issue Fee and Publication Fee other than the applicant; a registered attorn interest as shown by the records of the United	(if required) will not be accepted from anyone ney or agent; or the assignee or other party in i States Patent and Trademark Office.	l			
obtain or retain a benefit by the public whi application. Confidentiality is governed by 3 estimated to take 12 minutes to complete, in completed application form to the USPTO case. Any comments on the amount of tis suggestions for reducing this burden, should Patent and Trademark Office, U.S. Dep	y 37 CFR 1.311. The information is required to ch is to file (and by the USPTO to process) an 5 U.S.C. 122 and 37 CFR 1.14. This collection is cluding gathering, preparing, and submitting the Time will vary depending upon the individual me you require to complete this form and/or I be sent to the Chief Information Officer, U.S. partment of Commerce, Alexandria, Virginia COMPLETED FORMS TO THIS ADDRESS. Indria, Virginia 22313-1450.				

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/690,183	10/17/2000	Tadayoshi Kachi	TALW-0152	1660		
75	90 11/06/2003		EXAM	INER		
	Woodcock Washburn Kurtz Mackiewicz & Norris LLP			RIOS CUEVAS, ROBERTO JOSE		
One Liberty Place 4 Philadelphia, PA 19		•	ART UNIT	PAPER NUMBER		
• ,			2836			
			DATE MAILED: 11/06/2003	3		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 339 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 339 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



UNITED STATES PATENT AND TRADEMARK OFFICE

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Woodcock Washburn Kurtz Mackiewicz & Norris LLP			RIOS CUEVAS, F	RIOS CUEVAS, ROBERTO JOSE		
One Liberty Place 4 Philadelphia, PA 19			ART UNIT	PAPER NUMBER		
,			2836			
				•		

DATE MAILED: 11/06/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

By other than a small entity......\$480.00

(c) Issue fee for issuing a plant patent:

By other than a small entity......\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application	No.	Applicant(s)	
' Nation of Allowahility	09/690,183		KACHI ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Roberto J Ri	os	2836	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAIN: 5) or other appro RIGHTS. This a 13 and MPEP 13	S) CLOSED in this a opriate communication application is subject 308.	pplication. If not included in the mailed in due	led course. THIS
 This communication is responsive to <u>Response with engles</u> The allowed claim(s) is/are <u>1-9 and 11-16</u>. 	lish translation f	<u>iled on 08/15/2003</u> .		
 The anowed claim(s) is/are 1-9 and 11-10. The drawings filed on 17 October 2000 are accepted by the second of the se	the Evaminer			
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 		§ 119(a)-(d) or (f).		
 Certified copies of the priority documents have 	ve been receive	d.		
2. Certified copies of the priority documents have		* *		
Copies of the certified copies of the priority d	locuments have	been received in thi	s national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority	under 35 H.S.C	: 8 119(e) (to a provi	isional application)	
(a) The translation of the foreign language provisional			sional application).	
6. Acknowledgment is made of a claim for domestic priority	• •			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	of this communi of this application	ication to file a reply n. THIS THREE-M	complying with the req	uirements noted
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives rea	omitted. Note the ason(s) why the	e attached EXAMINE oath or declaration	ER'S AMENDMENT or is deficient.	NOTICE OF
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No				
(b) including changes required by the proposed drawing				
(c) including changes required by the attached Examine	er s Amenameni	(/ Comment or in the	e Office action of Paper	' No
Identifying indicia such as the application number (see 37 CFR each sheet.	1.84(c)) should l	be written on the drav	vings in the front (not th	e back) of
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR 	osit of BIOLO THE DEPOSIT	GICAL MATERIAL OF BIOLOGICAL M	. must be submitted. IATERIAL.	Note the
Attachment(s)	·			
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No. 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		4☐ Interview Sumi 6☐ Examiner's Am	mal Patent Application mary (PTO-413), Pape nendment/Comment atement of Reasons for SREGORY J. VALLEY, PRIMARY EXAMINER	No

Page 2

Application/Control Number: 09/690,183

Art Unit: 2836

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the claims:

Cancel claims 10, 17 and 18.

Allowable Subject Matter

- This application is in condition for allowance except for the presence of claims
 10, 17 and 18 to invention non-elected without traverse. Accordingly, claims 10, 17 and
 18 have been cancelled. See MPEP∮821.02.
- 3. Claims 1-9, and 11-16 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: Reasons for allowing claims 3 and 5-8 were previously indicated in the last office action mailed on 05/28/2003. As per claims 1, 2 and 11, the prior art (US patents 6,323,608; 6,271,645) teaches the claimed invention. However, applicant's effective foreign filing date antecedes said prior art references.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2836

5. Art of general nature relating to battery charging/discharging control has been cited for applicant's review.

Communication with PTO

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rios whose telephone number is (703) 306-5518. In the event that Examiner Rios cannot be reached, his supervisor, Brian Sircus may be contacted at (703) 308-3119. The fax number for Before-Final communications and After-Final communications is (703) 872-9306.

Roberto J. Rios Patent Examiner